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DATE MAILED: 11/10/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,886	07/30/2003	Arthur R. Alexander	11279 (NCR.0111US)	7940
7590 11/10/2005		EXAMINER		
John D. Cowart			DINH, TUAN T	
NCR Corporation	on			
Law Department IP WHQ-4W			ART UNIT	PAPER NUMBER
1700 S. Patterson Blvd.			2841	
Dayton, OH 45479				_

Please find below and/or attached an Office communication concerning this application or proceeding.

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R 1.121(d). O-152.	
Stage	

r		Application No.	Applicant(s)					
Office Action Summary		10/630,886	ALEXANDER ET AL	 .				
		Examiner	Art Unit					
		Tuan T. Dinh .	2841					
Period fo	The MAILING DATE of this communication reply	on appears on the cover sheet v	vith the correspondence addr	ress				
WHIC - Exte after - If NC - Failt Any	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status								
1)	Responsive to communication(s) filed on	19 August 2005						
لطارا □(2a		This action is non-final.						
3)	· /		Mana					
السارة	Since this application is in condition for a			nents is				
	closed in accordance with the practice ur	ider Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.					
Disposit	ion of Claims							
4)🖂	Claim(s) 2-17 and 20-27 is/are pending in	n the application.	,	•				
	4a) Of the above claim(s) 2-14,16,17,20-2	• •	from consideration					
5)								
,	Claim(s) <u>15 and 25</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction	and/or election requirement						
ا ال	are subject to restriction	and/or election requirement.						
Applicati	ion Papers			•				
9)	The specification is objected to by the Exa	aminer.						
	The drawing(s) filed on 18 August 2005 is		biected to by the Examiner					
•								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)□	The oath or declaration is objected to by t			, ,				
		THE EXAMINET. NOTE THE ALLACING	a Office Action of form FTO	<i>i</i> -152.				
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
A44	W-3							
Attachment 	t(s) e of References Cited (PTO-892)	∧ □	0					
) Motice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date		Informal Patent Application (PTO-1	52)				
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DETAILED ACTION

Note: the amendment filed on 08/18/05 is indicated that claims 1, and 18-19 are canceled. Claims 2-14, and 16-17 are dependent on claim 1, and claims 20-24 are dependent on claim 19. Thus, the examiner assumes that claims 2-14, 16-17, and 20-24 are treated as cancel claims.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claim 15 is rejected under 35 U.S.C. 102(b) as being anticipated by Sunahara (U.S. Patent 6,153,290).

As to claim 1, Sunahara discloses a circuit board (1, column 5, line 31) as shown in figures 1-4 comprising:

first and second reference plane layers (17, 14, column 5, lines 35-36);

a dielectric layer (3-7, column 5, lines 31-32) between the first and second reference plane layers (17, 14); a decoupling capacitor (10, column 5, line 33) having first and second electrodes (22, 23, column 5, line 56); and

a discrete resistive (12, column 5, line 34) having first and second electrodes, the first electrode being electrically connected to the first reference plane layer (17), the second electrode being electrically connected to the first electrode (22) of the capacitor (10), and the second electrode (23) of the capacitor (10) being electrically connected to the second reference plane layer (14).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sunahara (U.S. Patent 6,153,290) in view of Chakravorty (U.S. Patent 6,611,419)

As to claim 18, Sunahara discloses all of the limitations of the claimed invention as claimed in claim 15, except for the circuit board having an IC device mounted on.

Chakravorty teaches an electronic assembly comprising a multilayer substrate (210), see figure 2, having a IC die (200) mounted on.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have an IC mounted on a circuit board, as taught by

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Chakravorty, employed into circuit board of Sunahara in order to provide a functionally electrical interconnection of components and a circuit board.

Response to Arguments

5. Applicant's arguments with respect to claims 15 and 25 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Honda, Kambara, and Nagashima et al. disclose related art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VeeNIU

Tuan Dinh

November 05, 2005.